

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	567	548/152.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/20 18:30
L2	340	548/178.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/20 18:30
L3	1235	548/217.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/20 18:30
L9	148	504/267.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/20 18:32
L10	312	504/270.ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/20 18:33
L11	2091	l1 or l2 or l3 or l9 or l10	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/20 18:33
L12	333	l11 and (insect or insecticide or pesticide or pest pesticidal)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT	OR	ON	2006/11/20 18:33

STN Structure Search

10/510,331

(Registry/Caplus) 11/20/2006

N,N1
O,00-1
S,S0-1
C,C7

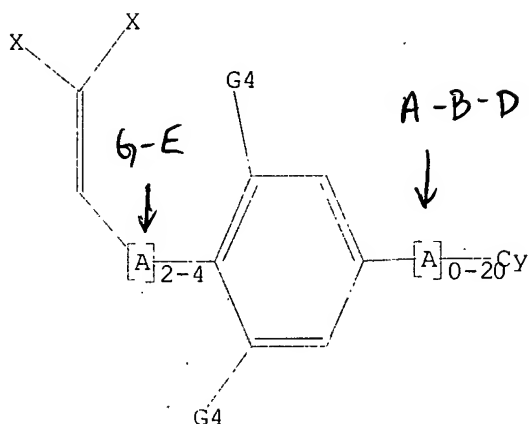
L7 STRUCTURE UPLOADED

=> d

L7 HAS NO ANSWERS

L7 STR

Broadest Search



G1 O, S, CH2

G2

G3 O, CH2

G4 H, X, Ak

G5 O, S, N

G6 O, S

Structure attributes must be viewed using STN Express query preparation.

=> s l7 full

FULL SEARCH INITIATED 17:03:07 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 19187 TO ITERATE

100.0% PROCESSED 19187 ITERATIONS
SEARCH TIME: 00.00.01

3 ANSWERS

L8 3 SEA SSS FUL L7

=> fil caplus

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE

ENTRY

673.92

TOTAL

SESSION

674.13

FILE 'CAPLUS' ENTERED AT 17:03:14 ON 20 NOV 2006
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FILE COVERS 1907 - 20 Nov 2006 VOL 145 ISS 22
FILE LAST UPDATED: 19 Nov 2006 (20061119/ED)

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=> s l8

L9 1 L8

=> d ibib

10/510,331

11/20/2006

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1996:457765 CAPLUS
 DOCUMENT NUMBER: 125:114466
 TITLE: Preparation of dihalopropene insecticides and acaricides
 INVENTOR(S): Sakamoto, Horiyasu; Matsuo, Sanshiro; Suzuki, Masaya; Hirose, Taro; Tsushima, Kazunori; Umeda, Kimitoshi
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
 SOURCE: PCT Int. Appl., 218 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

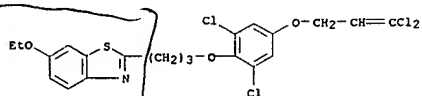
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AU 9536728	A1	19960506	AU 1995-36728	19951012
AU 692930	B2	19980618		
EP 785923	A1	19970730	EP 1995-934276	19951012
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CN 1169147	A	19971231	CN 1995-196682	19951012
CN 1088061	B	20020724		
HU 77014	A2	19980302	HU 1997-2014	19951012
BR 9509315	A	19980326	BR 1995-9315	19951012
AT 191477	E	20000415	AT 1995-934276	19951012
ES 2145301	T3	20000701	ES 1995-934276	19951012
IL 130672	A1	20000716	IL 1995-130672	19951012
IL 130674	A1	20000716	IL 1995-130674	19951012
IL 115597	A1	20000726	IL 1995-115597	19951012
IL 130673	A1	20000726	IL 1995-130673	19951012
RU 2158260	C2	20001027	RU 1997-107997	19951012
CN 1654455	A	20050817	CN 2005-10054414	19951012
ZA 9508652	A	19960514	ZA 1995-8652	19951013
JP 09151172	A2	19970610	JP 1995-265986	19951013
JP 3106928	B2	20001106		
EG 21672	A	20020227	EG 1995-854	19951014
US 5922880	A	19990713	US 1997-809865	19970520
US 6071861	A	20000606	US 1998-203362	19981202
US 6268313	B1	20010731	US 2000-521119	20000307
GR 3033311	T3	20000929	GR 2000-400994	20000426
JP 2000355582	A2	20001226	JP 2000-161945	20000531
JP 3835125	B2	20061019		
CN 1314433	A	20011024	CN 2001-116628	20010412
US 6376428	B1	20020423	US 2001-864227	20010525
US 2003073847	A1	20030417	US 2002-86888	20020304

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
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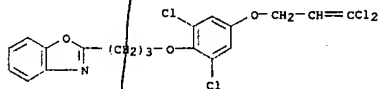
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 JP 1995-247922 A 19950926
 IL 1995-115597 A3 19951012
 WO 1995-JP2080 W 19951012
 JP 1995-265986 A3 19951013
 US 1997-809865 B3 19970520
 US 1998-203362 A3 19981202
 US 2000-521119 A3 20000307
 CN 2001-116628 A3 20010412
 US 2001-864227 A3 20010525

OTHER SOURCE(S): MARPAT 125:114466

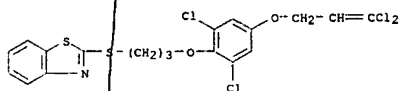
L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
 IT 179102-08-0P 179102-09-1P 179102-16-0P
 RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological
 study); PREP (Preparation); USES (Uses)
 (preparation of dihalopropene insecticides and acaricides)
 RN 179102-08-0 CAPLUS
 CN Benzothiazole, 2-[[3-[2,6-dichloro-4-[(3,3-dichloro-2-
 propenyl)oxy]phenoxy]propyl]-6-ethoxy- (9CI) (CA INDEX NAME)



RN 179102-09-1 CAPLUS
 CN Benzoxazole, 2-[[3-[2,6-dichloro-4-[(3,3-dichloro-2-
 propenyl)oxy]phenoxy]propyl]- (9CI) (CA INDEX NAME)



RN 179102-16-0 CAPLUS
 CN Benzothiazole, 2-[[3-[2,6-dichloro-4-[(3,3-dichloro-2-
 propenyl)oxy]phenoxy]propyl]thio]- (9CI) (CA INDEX NAME)



M = S

G = CH₂

E = O

A = O

B = (CH₂)₃

M = O

M = S

D = S

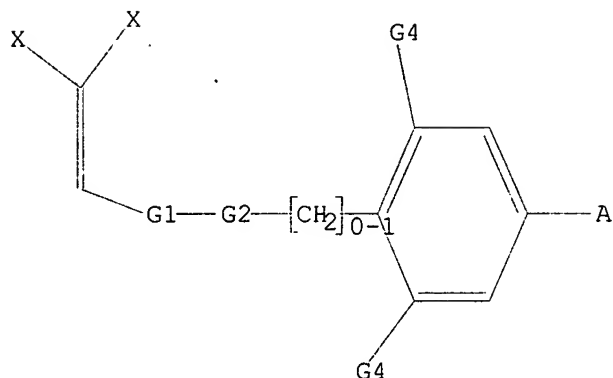
Attached thru het. ring moiety of poly-cylo ring

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR

*sub - structure search*G1 O, S, CH₂G2 O, S, CH₂, NG3 O, CH₂

G4 H, X, Ak

G5 O, S, N

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 15:21:33 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 27925 TO ITERATE

100.0% PROCESSED 27925 ITERATIONS
 SEARCH TIME: 00.00.01

2774 ANSWERS

L2 2774 SEA SSS FUL L1

=>

Uploading C:\Program Files\Stnexp\Queries\10510331\2.str

Structure Search

10/510,331

11/20/2006

G1:O, S, CH2

G2:O, S, CH2, N

G3:O, CH2

G4:H, X, Ak

G5:O, S, N

G6:O, S

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 7:CLASS 9:CLASS 10:Atom 11:Atom

12:Atom 13:Atom 14:Atom 15:Atom 20:CLASS 21:CLASS 25:CLASS 26:CLASS

27:CLASS 28:Any

Generic attributes :

28:

Saturation : Unsaturated

Number of Hetero Atoms : 2 or more

Type of Ring System : Polycyclic

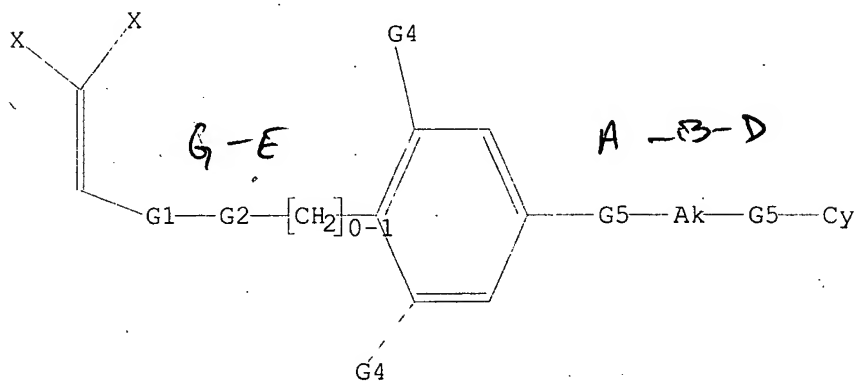
} cy

L10 STRUCTURE UPLOADED

=> d

L10 HAS NO ANSWERS

L10 STR



G1 O, S, CH2

G2 O, S, CH2, N

G3 O, CH2

G4 H, X, Ak

G5 O, S, N

G6 O, S

Structure attributes must be viewed using STN Express query preparation.

=> s l10 full
FULL SEARCH INITIATED 15:35:32 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 17771 TO ITERATE

100.0% PROCESSED 17771 ITERATIONS
SEARCH TIME: 00.00.01

3 ANSWERS

L11 3 SEA SSS FUL L10

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FULL SUBSET SEARCH INITIATED 15:35:58 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 2754 TO ITERATE

100.0% PROCESSED 2754 ITERATIONS
SEARCH TIME: 00.00.01

3 ANSWERS

L12 3 SEA SUB=L2 SSS FUL L10

=> fil caplus
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
462.20	462.41

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 15:36:02 ON 20 NOV 2006
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FILE COVERS 1907 - 20 Nov 2006 VOL 145 ISS 22
FILE LAST UPDATED: 19 Nov 2006 (20061119/ED)

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=> s l12
L13 2 L12

=> d ibib abs hitstr 1-2

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004/96483 CAPLUS
 DOCUMENT NUMBER: 141:410815
 TITLE: Preparation of (dihalopropenyl) phenylalkyl substituted dihydrobenzofuran and dihydrobenzopyran derivatives as insecticides
 INVENTOR(S): Theodoridis, George; Barron, Edward J.; Suarez, Dominic P.; Zhang, Y. Larry; Ding, Ping; Roush, David M.; Donovan, Stephen F.; Zawacki, Frank J.; Yeager, Walter H.; Lyga, John W.; Cohen, Daniel H.
 PATENT ASSIGNEE(S): Fmc Corporation, USA
 SOURCE: U.S. Pat. Appl. Publ., 28 pp.
 CODEN: USXXCO
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

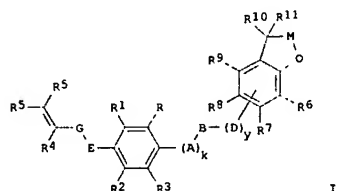
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004224994	A1	20041111	US 2004-832624	20040427
US 6987194	B2	20060117		
AU 2004236195	A1	20041118	AU 2004-236195	20040427
AU 2004237745	A1	20041118	AU 2004-237745	20040427
CA 2523085	AA	20041118	CA 2004-2523085	20040427
CA 2523191	AA	20041118	CA 2004-2523191	20040427
WO 2004098283	A2	20041118	WO 2004-US12886	20040427
WO 2004098283	A3	20050407		
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EP 1620401	A2	20060201	EP 2004-760588	20040427

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
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 CN 1780619 A 20060531 CN 2004-80011460 20040428
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 JP 2006525338 T2 20061109 JP 2006-513379 20040428
 US 2006247283 A1 20061102 US 2005-554347 20051024
 US 2006094776 A1 20060504 US 2005-292023 20051201
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L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
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 WO 2004-US12886 W 20040427
 WO 2004-US12890 W 20040427
 WO 2004-US13014 W 20040428
 WO 2004-US13023 W 20040428

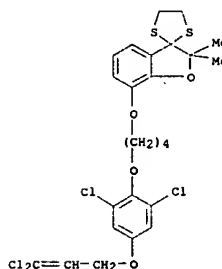
OTHER SOURCE(S): MARPAT 141:410815
 GI



AB The title compds. (I) [R, R3 = H, halogen, HO, alkyl, cycloalkyl, alkenyl, alkynyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfonyl, haloalkylsulfonyl, cyano, nitro, each (un)substituted NH2, etc.; R1, R2 = H, halogen, alkyl; R4 = H; R5 = halogen; E = CH2, O, S, (un)substituted NH; G = O, S, CH2O*, (CH2)n (where the asterisk denotes attachment to E; n = 1, 2; provided that E and G are not simultaneously O or S); x = 0, 1; when x = 1, A = O, S(O)p and (un)substituted NH (where p = 0, 1, 2); B = (un)substituted -(CH2)q-(CH2)r-(CH2)s-Lt-(CH2)u-(CH2)v-(CH2)w (where the asterisk denotes attachment at A; q, r, s, u, v, w = 0, 1, 2; t = 0, 1; when t = 1, L = CH(OH); O S(O)p; OS(O)2, S(O)2O, (un)substituted NH, NHSO2, or NHCOOH; Si(CH3)2, CO, OC(O), NHCO, ON; CH, etc.); y = 0, 1; when y = 1, D = O, S(O)p, (un)substituted NH (wherein p = 0-2); R6-R9 = H, halogen, alkyl, cycloalkyl, alkenyl, alkynyl, haloalkyl, alkoxy, haloalkoxy, alkylthio, haloalkylthio, alkylsulfonyl, haloalkylsulfonyl, cyano, nitro, aryl, etc.; R10, R11 = independently selected from hydrogen, halogen, hydroxy, alkyl, alkoxy, or R10 and R11 taken together are O forming CO, OCH2CH2O or SCH2CH2S forming a ketal or thioketal group, or (un)substituted NOH forming an oxime; M = each (un)substituted CH2 or CH2CH2 (where the asterisk indicates attachment to O), and agriculturally acceptable salts thereof are prepared. These compds. provide unexpected insecticidal activity across a spectrum of insect pests combined with desirable phys. properties including improved photostability. In addition, compds. comprising an insecticidally effective amount of at least one compound of formula I and methods of controlling

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
 insects by applying said compns. to a locus where insects are present or are expected to be present are also disclosed. Thus, a stirred soln. of 0.44 g (0.0011 mol) 4-[(2,2-dimethyl-1,3-dihydrobenzo[2,3-b]furan-7-yl)oxy]butoxy]-3,5-dichlorophenol, 0.3 g (0.0015 mol) 1,1,1,3-tetrachloropropane, and 0.3 g (0.0022 mol) K2CO3 in 25 mL DMF was heated at 80° for approx. 18 h to give, after workup and silica gel chromatog., 0.39 g
 5-(3,3-dichloroprop-2-enyloxy)-2-[4-[(2,2-dimethyl-2,3-dihydrobenzo[2,3-b]furan-7-yl)oxy]butoxy]-1,3-dichlorobenzene (II). A wheat germ-based artificial diet contg. 0.25 mmol II exhibited 100% mortality and 100% growth inhibition in tobacco budworm [*Heliothis virescens* (Fabricius)].
 IT 791063-77-9P
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES

(Uses)
 (preparation of (dihalopropenyl) phenylalkyl-substituted dihydrobenzofuran and dihydrobenzopyran derivs. as insecticides)
 RN 791063-77-9 CAPLUS
 CN Spiro[benzofuran-3(2H),2'-[1,3]dithiolane], 7-[4-[2,6-dichloro-4-[(3,3-dichloro-2-propenyl)oxy]phenyloxy]butoxy]-2,2-dimethyl-9(CI) (CA INDEX NAME)



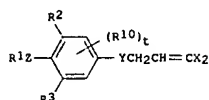
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L13 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1996:457765 CAPLUS
 DOCUMENT NUMBER: 125:114466
 TITLE: Preparation of dihalopropene insecticides and acaricides
 INVENTOR(S): Sakamoto, Noriyasu; Matsuo, Sanshiro; Suzuki, Masaya; Hirose, Taro; Tsushima, Kazunori; Umeda, Kimitoshi
 PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Japan
 SOURCE: PCT Int. Appl., 218 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9611909	A1	19960425	WO 1995-JP2080	19951012
W: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2202495	AA	19960425	CA 1995-2202495	19951012
AU 9536728	A1	19960506	AU 1995-36728	19951012
AU 692930	B2	19980618		
EP 785923	A1	19970730	EP 1995-934276	19951012
EP 785923	B1	20000405		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
CN 1169147	A	19971231	CN 1995-196682	19951012
CN 1088061	B	20020724		
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BR 9509315	A	19980526	BR 1995-9315	19951012
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ES 2145301	T3	20000701	ES 1995-934276	19951012
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IL 130674	A1	20000716	IL 1995-130674	19951012
IL 115597	A1	20000726	IL 1995-115597	19951012
IL 130673	A1	20000726	IL 1995-130673	19951012
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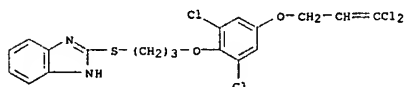
L13 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)
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 PRIORITY APPL. INFO.: JP 1994-245296 A 19941014
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 IL 1995-115597 A3 19951012
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 US 1998-203362 A3 19981202
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 CN 2001-116628 A3 20010412
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OTHER SOURCE(S): MARPAT 125:114466
 GI



AB The title compds. [I; R1 = (un)substituted alkyl, (un)substituted alkenyl, etc; R2, R3, R10 = halogen, haloalkyl, alkyl; X = Cl, Br; Y = O, S, NH; Z = O, S, (un)substituted NH; t = 0-2], useful for the control of noxious insects, mites, and ticks, are prepared and i-containing formulations presented.
 Thus, 4-(3,3-dichloro-2-propenyloxy)-2,6-dichlorophenol was coupled with 2-(2-hydroxyethyl)thiophene in the presence of PPh3 and diisopropyl azodicarboxylate, producing insecticidal 3,5-dichloro-4-[(2-(2-thienyl)ethoxy)-1-(3,3-dichloro-2-propenyloxy)benzene in 62% yield.
 IT 179102-15-9P 179102-16-OP
 RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of dihalopropene insecticides and acaricides)
 RN 179102-15-9 CAPLUS
 CN 1H-Benzimidazole, 2-[(3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyloxy)phenoxy]propyl]thio)-(9CI) (CA INDEX NAME)

L13 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 179102-16-0 CAPLUS
 CN Benzothiazole, 2-[(3-[2,6-dichloro-4-[(3,3-dichloro-2-propenyloxy)phenoxy]propyl]thio)-(9CI) (CA INDEX NAME)

